

3/20/07

=> fil reg; d ide

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 MAR 2007 HIGHEST RN 927525-36-8

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 961-07-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN Guanosine, 2'-deoxy- (6CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2'-Deoxyguanosine

CN 9-(2-Deoxy- $\beta$ -D-erythro-pentofuranosyl)guanine

CN Deoxyguanosine

CN Guanine deoxyriboside

CN Guanine, 9-(2-deoxy- $\beta$ -D-erythro-pentofuranosyl)-

CN NSC 22837

FS STEREOSEARCH

DR 6949-74-2, 961-06-8

MF C10 H13 N5 O4

CI COM

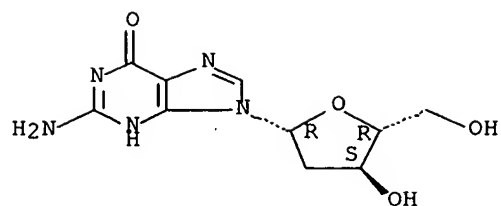
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, PIRA, PROMT, RTECS\*, SPECINFO, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2802 REFERENCES IN FILE CA (1907 TO DATE)  
222 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
2807 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
53 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

## INVENTOR SEARCH

=> => fil medl jic pascal biotechno confsci biotechds dissabs bioeng ceaba embase  
scisearch

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=> d que 1111

L6	1	SEA FILE=REGISTRY ABB=ON 961-07-9
L93	12060	SEA NOGUCHI T?/AU
L94	1973	SEA HAMAMOTO T?/AU
L95	4277	SEA OKUYAMA K?/AU
L96	2031	SEA SHIBUYA S?/AU
L97	4682	SEA L6
L98	19615	SEA DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W) GUANOSINE OR DESOXYGUANOSINE OR GUANINE (W) (DEOXYRIBOSIDE OR DEOXY RIBOSIDE) OR (NSC22837 OR NSC 22837)
L99	11	SEA NUCLEOSIDE# (2A) DEOXYRIBOSYL (2A) TRANSFERASE#
L100	117	SEA NUCLEOSIDE (2W) (DEOXYRIBOSYLTRANSFERASE# OR DEOXYRIBOSYLASE# )
L101	70	SEA TRANS (1W) (DEOXYRIBOSYLASE# OR DEOXYRIBOLASE# OR GLYCOSIDASE #)
L102	7	SEA TRANSDEOXYRIBOSYLASE# OR DEOXYRIBOSE TRANSFERASE#
L103	310920	SEA TRANSFERASE#
L104	395819	SEA HYDROLASE# OR NUCLEOSIDASE# OR DEAMINASE#
L105	200366	SEA DEOXYNUCLEOSIDE# OR DESOXYNUCLEOSIDE# OR (DEOXYPYRIMIDINE OR DESOXYPYRIMIDINE OR DEOXY OR DESOXY) (1W) NUCLEOSIDE# OR

THYMIDINE  
 L106 107827 SEA GUANOSINE  
 L107 1249 SEA HALOGENOPURINE# OR CHLOROPURINE# OR BROMOPURINE# OR  
 IODOPURINE# OR FLUOROPURINE#  
 L108 1785 SEA DIAMINOPURINE OR (DIAMINO OR DI AMINO) (W) PURINE  
 L109 45 SEA (HALOGEN# OR CHLORO OR BROMO OR IODO OR FLUORO) (W) PURINE#  
 L111 6 SEA (L93 OR L94 OR L95 OR L96) AND (L97 OR L98) AND (L99 OR  
 L100 OR L101 OR L102 OR L103 OR L104 OR L105 OR L106 OR L107  
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=> fil capl; d que 128

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 L2 520 SEA FILE=CAPLUS ABB=ON HAMAMOTO T?/AU  
 L3 1696 SEA FILE=CAPLUS ABB=ON OKUYAMA K?/AU  
 L4 770 SEA FILE=CAPLUS ABB=ON SHIBUYA S?/AU  
 L6 1 SEA FILE=REGISTRY ABB=ON 961-07-9  
 L23 177 SEA FILE=CAPLUS ABB=ON L6/P  
 L28 4 SEA FILE=CAPLUS ABB=ON L23 AND (L1 OR L2 OR L3 OR L4)

=> fil wpix; d que 154

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[http://www.stn-international.de/stndatabases/details/dwpi\\_r.html](http://www.stn-international.de/stndatabases/details/dwpi_r.html) <<<  
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L45	3886	SEA FILE=WPIX ABB=ON	NOGUCHI T?/AU
L46	493	SEA FILE=WPIX ABB=ON	HAMAMOTO T?/AU
L47	1209	SEA FILE=WPIX ABB=ON	OKUYAMA K?/AU
L48	949	SEA FILE=WPIX ABB=ON	SHIBUYA S?/AU
L49	381	SEA FILE=WPIX ABB=ON	DEOXYGUANOSINE/BI,ABEX OR DEOXY GUANOSINE /BI,ABEX
L50	1	SEA FILE=WPIX ABB=ON	GUANINE/BI,ABEX(W) (DEOXYRIBOSIDE/BI,ABEX OR DEOXY RIBOSIDE/BI,ABEX) OR (NSC22837/BI,ABEX OR NSC 22837/BI,ABEX)
L52	20	SEA FILE=WPIX ABB=ON	DESOXYGUANOSINE/BI,ABEX OR DESOXY GUANOSINE/BI,ABEX
L54	3	SEA FILE=WPIX ABB=ON	(L45 OR L46 OR L47 OR L48) AND (L49 OR L50 OR L52)

=> fil biosis; d que l83

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L6	1	SEA FILE=REGISTRY ABB=ON	961-07-9
L77	2042	SEA FILE=BIOSIS ABB=ON	NOGUCHI T?/AU
L78	249	SEA FILE=BIOSIS ABB=ON	HAMAMOTO T?/AU
L79	343	SEA FILE=BIOSIS ABB=ON	OKUYAMA K?/AU

L80 233 SEA FILE=BIOSIS ABB=ON SHIBUYA S?/AU  
 L81 1108 SEA FILE=BIOSIS ABB=ON L6  
 L82 5101 SEA FILE=BIOSIS ABB=ON DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W)  
 GUANOSINE OR DESOXYGUANOSINE OR GUANINE(W) (DEOXYRIBOSIDE OR  
 DEOXY RIBOSIDE) OR (NSC22837 OR NSC 22837)  
 L83 4 SEA FILE=BIOSIS ABB=ON (L77 OR L78 OR L79 OR L80) AND (L81 OR  
 L82)

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 PROCESSING COMPLETED FOR L54  
 PROCESSING COMPLETED FOR L83  
 PROCESSING COMPLETED FOR L111  
 L131 9 DUP REM L28 L54 L83 L111 (8 DUPLICATES REMOVED)  
 ANSWERS '1-4' FROM FILE CAPLUS  
 ANSWER '5' FROM FILE WPIX  
 ANSWERS '6-8' FROM FILE BIOSIS  
 ANSWER '9' FROM FILE SCISEARCH

=> d ibib ed ab 1-9

L131 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1  
 ACCESSION NUMBER: 2003:551665 CAPLUS Full-text  
 DOCUMENT NUMBER: 139:116342  
 TITLE: Process for producing 2'-deoxyguanosine  
 INVENTOR(S): Noguchi, Toshitada; Hamamoto, Tomoki  
 ; Okuyama, Kiyoshi; Shibuya, Susumu  
 PATENT ASSIGNEE(S): Yamasa Corporation, Japan  
 SOURCE: PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent

## TEXT SEARCH

=&gt;

=> => fil medl jic pascal biotechno confsci biotechds dissabs bioeng ceaba embase  
scisearch

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=> d que 1112; d que 1130

L6 1 SEA FILE=REGISTRY ABB=ON 961-07-9  
L97 4682 SEA L6  
L98 19615 SEA DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W) GUANOSINE OR  
DESOXYGUANOSINE OR GUANINE (W) (DEOXYRIBOSIDE OR DEOXY RIBOSIDE)  
OR (NSC22837 OR NSC 22837)  
L99 11 SEA NUCLEOSIDE#(2A) DEOXYRIBOSYL(2A) TRANSFERASE#  
L100 117 SEA NUCLEOSIDE(2W) (DEOXYRIBOSYLTRANSFERASE# OR DEOXYRIBOSYLASE#  
)  
L101 70 SEA TRANS(1W) (DEOXYRIBOSYLASE# OR DEOXYRIBOLASE# OR GLYCOSIDASE  
#)  
L102 7 SEA TRANSDEOXYRIBOSYLASE# OR DEOXYRIBOSE TRANSFERASE#  
L112 13 SEA (L97 OR L98) AND (L99 OR L100 OR L101 OR L102)

L6 1 SEA FILE=REGISTRY ABB=ON 961-07-9  
L97 4682 SEA L6  
L98 19615 SEA DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W) GUANOSINE OR

DESOXYGUANOSINE OR GUANINE(W) (DEOXYRIBOSIDE OR DEOXY RIBOSIDE)  
OR (NSC22837 OR NSC 22837)

L103 310920 SEA TRANSFERASE#  
L104 395819 SEA HYDROLASE# OR NUCLEOSIDASE# OR DEAMINASE#  
L105 200366 SEA DEOXYNUCLEOSIDE# OR DESOXYNUCLEOSIDE# OR (DEOXYPYRIMIDINE  
OR DESOXYPYRIMIDINE OR DEOXY OR DESOXY) (1W) NUCLEOSIDE# OR  
THYMIDINE  
L106 107827 SEA GUANOSINE  
L107 1249 SEA HALOGENOPURINE# OR CHLOROPURINE# OR BROMOPURINE# OR  
IODOPURINE# OR FLUOROPURINE#  
L108 1785 SEA DIAMINOPURINE OR (DIAMINO OR DI AMINO) (W) PURINE  
L109 45 SEA (HALOGEN# OR CHLORO OR BROMO OR IODO OR FLUORO) (W) PURINE#  
L127 548 SEA L98(5A) (PREP? OR SYNTHES? OR MANUF? OR BIOSYNTHES?)  
L128 1308 SEA L97 AND (PREP? OR SYNTHES? OR MANUF? OR BIOSYNTHES?)  
L129 1744 SEA (L127 OR L128)  
L130 14 SEA L129 AND L103 AND (L104 OR L105 OR L106 OR L107 OR L108 OR  
L109)

=> s (l112 or l130)

L132 25 (L112 OR L130)

=> s l132 not l111

L133 20 L132 NOT L111

=> fil capl; d que l35; d que l44

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L7 1 SEA FILE=REGISTRY ABB=ON GUANOSINE/CN  
L8 1 SEA FILE=REGISTRY ABB=ON 85-32-5  
L9 1 SEA FILE=REGISTRY ABB=ON 2,6-DIAMINOPURINE/CN  
L10 1 SEA FILE=REGISTRY ABB=ON 2-AMINO-6-CHLOROPURINE/CN



L11 1 SEA FILE=REGISTRY ABB=ON 452-06-2  
 L12 3 SEA FILE=REGISTRY ABB=ON THYMIDINE/CN  
 L13 1 SEA FILE=REGISTRY ABB=ON NUCLEOSIDE DEOXYRIBOSYLTRANSFERASE/CN  
  
 L14 1 SEA FILE=REGISTRY ABB=ON HYDROLASE/CN  
 L15 1 SEA FILE=REGISTRY ABB=ON NUCLEOSIDASE/CN  
 L16 1 SEA FILE=REGISTRY ABB=ON PURINE NUCLEOSIDASE/CN  
 L17 1 SEA FILE=REGISTRY ABB=ON DEAMINASE/CN  
 L18 1 SEA FILE=REGISTRY ABB=ON INOSINATE NUCLEOSIDASE/CN  
 L19 3 SEA FILE=REGISTRY ABB=ON ADENOSINE DEAMINASE/CN  
 L20 16 SEA FILE=CAPLUS ABB=ON PYRIMIDINE NUCLEOSIDES/CT (L) 2/OBI (L) DEOXY/OBI  
 L21 1367 SEA FILE=CAPLUS ABB=ON DEOXYNUCLEOSIDE#/OBI  
 L22 8488 SEA FILE=CAPLUS ABB=ON L12  
 L23 177 SEA FILE=CAPLUS ABB=ON L6/P  
 L24 11127 SEA FILE=CAPLUS ABB=ON (L7 OR L8 OR L9 OR L10)  
 L25 38 SEA FILE=CAPLUS ABB=ON L11/D  
 L26 107 SEA FILE=CAPLUS ABB=ON L13  
 L27 8777 SEA FILE=CAPLUS ABB=ON (L14 OR L15 OR L16 OR L17 OR L18 OR L19)  
 L35 5 SEA FILE=CAPLUS ABB=ON L23 AND (L24 OR L25) AND (L20 OR L21 OR L22) AND (L27 OR L26)

L12 3 SEA FILE=REGISTRY ABB=ON THYMIDINE/CN  
 L13 1 SEA FILE=REGISTRY ABB=ON NUCLEOSIDE DEOXYRIBOSYLTRANSFERASE/CN  
  
 L17 1 SEA FILE=REGISTRY ABB=ON DEAMINASE/CN  
 L22 8488 SEA FILE=CAPLUS ABB=ON L12  
 L37 4 SEA FILE=CAPLUS ABB=ON NUCLEOSIDE#/OBI (L) DEOXYRIBOSYL/OBI (L) TRANSFERASE#/OBI  
 L38 1704 SEA FILE=CAPLUS ABB=ON HALOGENOPURINE#/OBI OR CHLOROPURINE#/OBI OR BROMOPURINE#/OBI OR IODOPURINE#/OBI OR FLUOROPURINE#/OBI  
 L41 67 SEA FILE=CAPLUS ABB=ON NUCLEOSIDE/OBI (2W) (DEOXYRIBOSYLTRANSFERASE#/OBI OR DEOXYRIBOSYLASE#/OBI)  
 L42 40 SEA FILE=CAPLUS ABB=ON TRANS/OBI (1W) (DEOXYRIBOSYLASE#/OBI OR DEOXYRIBOLASE#/OBI OR GLYCOSIDASE#/OBI)  
 L43 11 SEA FILE=CAPLUS ABB=ON TRANSDEOXYRIBOSYLASE#/OBI OR DEOXYRIBOSE TRANSFERASE#/OBI  
 L44 1 SEA FILE=CAPLUS ABB=ON L22 AND L17 AND L38 AND (L37 OR L13 OR L41 OR L42 OR L43)

=> s 135,144 not 128

L134 3 (L35 OR L44) NOT L28

=> fil wpix; d que 170; d que 171; d que 172; d que 176

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L49 381 SEA FILE=WPIX ABB=ON DEOXYGUANOSINE/BI,ABEX OR DEOXY GUANOSINE /BI,ABEX

L50 1 SEA FILE=WPIX ABB=ON GUANINE/BI,ABEX(W) (DEOXYRIBOSIDE/BI,ABEX OR DEOXY RIBOSIDE/BI,ABEX) OR (NSC22837/BI,ABEX OR NSC 22837/BI,ABEX)

L52 20 SEA FILE=WPIX ABB=ON DESOXYGUANOSINE/BI,ABEX OR DESOXY GUANOSINE/BI,ABEX

L55 1 SEA FILE=WPIX ABB=ON "DEOXYGUANOSINE,2'-' /CN

L56 25 SEA FILE=WPIX ABB=ON L55/DCR

L57 25 SEA FILE=WPIX ABB=ON (RA05YW/DRN,DCN,DCE OR 10871-1-0-0/DRN,D CN,DCE)

L58 385 SEA FILE=WPIX ABB=ON (L56 OR L57 OR L49 OR L50)

L59 6 SEA FILE=WPIX ABB=ON NUCLEOSIDE#/BI,ABEX(2A)DEOXYRIBOSYL/BI,AB EX(2A)TRANSFERASE#/BI,ABEX

L60 3 SEA FILE=WPIX ABB=ON NUCLEOSIDE/BI,ABEX(2W) (DEOXYRIBOSYLTRANSF ERASE#/BI,ABEX OR DEOXYRIBOSYLASE#/BI,ABEX)

L61 5 SEA FILE=WPIX ABB=ON TRANS/BI,ABEX(1W) (DEOXYRIBOSYLASE#/BI,ABE X OR DEOXYRIBOLASE#/BI,ABEX OR GLYCOSIDASE#/BI,ABEX)

L62 1 SEA FILE=WPIX ABB=ON TRANSDEOXYRIBOSYLASE#/BI,ABEX OR DEOXYRIBOSE TRANSFERASE#/BI,ABEX

L70 2 SEA FILE=WPIX ABB=ON (L58 OR L52) AND (L59 OR L60 OR L61 OR L62)

L49 381 SEA FILE=WPIX.ABB=ON DEOXYGUANOSINE/BI,ABEX OR DEOXY GUANOSINE /BI,ABEX

L50 1 SEA FILE=WPIX ABB=ON GUANINE/BI,ABEX(W) (DEOXYRIBOSIDE/BI,ABEX OR DEOXY RIBOSIDE/BI,ABEX) OR (NSC22837/BI,ABEX OR NSC 22837/BI,ABEX)

L52 20 SEA FILE=WPIX ABB=ON DESOXYGUANOSINE/BI,ABEX OR DESOXY GUANOSINE/BI,ABEX

L55 1 SEA FILE=WPIX ABB=ON "DEOXYGUANOSINE,2'-' /CN  
 L56 25 SEA FILE=WPIX ABB=ON L55/DCR  
 L57 25 SEA FILE=WPIX ABB=ON (RA05YW/DRN,DCN,DCRE OR 10871-1-0-0/DRN,D  
 CN,DCRE)  
 L58 385 SEA FILE=WPIX ABB=ON (L56 OR L57 OR L49 OR L50)  
 L63 4728 SEA FILE=WPIX ABB=ON (B04-L04 OR C04-L04 OR B04-B02C4 OR  
 C04-B02C4) /MC  
 B04-L04 TRANSFERASES GENERAL AND OTHER  
 C04-L04 TRANSFERASES GENERAL AND OTHER  
 B04-B02C4 TRANSFERASES\*  
 C04-B02C4 TRANSFERASES\*  
  
 L66 1884 SEA FILE=WPIX ABB=ON GUANOSINE/BI,ABEX  
 L67 284 SEA FILE=WPIX ABB=ON HALOGENOPURINE#/BI,ABEX OR CHLOROPURINE#/  
 BI,ABEX OR BROMOPURINE#/BI,ABEX OR IODOPURINE#/BI,ABEX OR  
 FLUOROPURINE#/BI,ABEX  
 L68 260 SEA FILE=WPIX ABB=ON DIAMINOPURINE/BI,ABEX OR (DIAMINO/BI,ABEX  
 OR DI AMINO/BI,ABEX) (W) PURINE/BI,ABEX  
 L69 86 SEA FILE=WPIX ABB=ON (HALOGEN#/BI,ABEX OR CHLORO/BI,ABEX OR  
 BROMO/BI,ABEX OR IODO/BI,ABEX OR FLUORO/BI,ABEX) (W) PURINE#/BI,A  
 BEX  
 L71 5 SEA FILE=WPIX ABB=ON (L58 OR L52) AND L63 AND (L66 OR L67 OR  
 L68 OR L69)  
  
 L49 381 SEA FILE=WPIX ABB=ON DEOXYGUANOSINE/BI,ABEX OR DEOXY GUANOSINE  
 /BI,ABEX  
 L50 1 SEA FILE=WPIX ABB=ON GUANINE/BI,ABEX (W) (DEOXYRIBOSIDE/BI,ABEX  
 OR DEOXY RIBOSIDE/BI,ABEX) OR (NSC22837/BI,ABEX OR NSC  
 22837/BI,ABEX)  
 L52 20 SEA FILE=WPIX ABB=ON DESOXYGUANOSINE/BI,ABEX OR DESOXY  
 GUANOSINE/BI,ABEX  
 L55 1 SEA FILE=WPIX ABB=ON "DEOXYGUANOSINE,2'-' /CN  
 L56 25 SEA FILE=WPIX ABB=ON L55/DCR  
 L57 25 SEA FILE=WPIX ABB=ON (RA05YW/DRN,DCN,DCRE OR 10871-1-0-0/DRN,D  
 CN,DCRE)  
 L58 385 SEA FILE=WPIX ABB=ON (L56 OR L57 OR L49 OR L50)  
 L63 4728 SEA FILE=WPIX ABB=ON (B04-L04 OR C04-L04 OR B04-B02C4 OR  
 C04-B02C4) /MC  
 L65 4464 SEA FILE=WPIX ABB=ON DEOXYNUCLEOSIDE#/BI,ABEX OR DESOXYNUCLEOS  
 IDE#/BI,ABEX OR (DEOXPYRIMIDINE/BI,ABEX OR DESOXPYRIMIDINE/BI  
 ,ABEX OR DEOXY/BI,ABEX OR DESOXY/BI,ABEX) (1W) NUCLEOSIDE#/BI,AB  
 EX OR THYMIDINE/BI,ABEX  
 L72 6 SEA FILE=WPIX ABB=ON (L58 OR L52) AND L65 AND L63  
  
 L49 381 SEA FILE=WPIX ABB=ON DEOXYGUANOSINE/BI,ABEX OR DEOXY GUANOSINE  
 /BI,ABEX  
 L50 1 SEA FILE=WPIX ABB=ON GUANINE/BI,ABEX (W) (DEOXYRIBOSIDE/BI,ABEX  
 OR DEOXY RIBOSIDE/BI,ABEX) OR (NSC22837/BI,ABEX OR NSC  
 22837/BI,ABEX)  
 L52 20 SEA FILE=WPIX ABB=ON DESOXYGUANOSINE/BI,ABEX OR DESOXY  
 GUANOSINE/BI,ABEX  
 L55 1 SEA FILE=WPIX ABB=ON "DEOXYGUANOSINE,2'-' /CN  
 L56 25 SEA FILE=WPIX ABB=ON L55/DCR  
 L57 25 SEA FILE=WPIX ABB=ON (RA05YW/DRN,DCN,DCRE OR 10871-1-0-0/DRN,D  
 CN,DCRE)  
 L58 385 SEA FILE=WPIX ABB=ON (L56 OR L57 OR L49 OR L50)

L59 6 SEA FILE=WPIX ABB=ON NUCLEOSIDE#/BI, ABEX (2A) DEOXYRIBOSYL/BI, ABEX (2A) TRANSFERASE#/BI, ABEX

L60 3 SEA FILE=WPIX ABB=ON NUCLEOSIDE/BI, ABEX (2W) (DEOXYRIBOSYLTRANSFERASE#/BI, ABEX OR DEOXYRIBOSYLASE#/BI, ABEX)

L61 5 SEA FILE=WPIX ABB=ON TRANS/BI, ABEX (1W) (DEOXYRIBOSYLASE#/BI, ABEX OR DEOXYRIBOLASE#/BI, ABEX OR GLYCOSIDASE#/BI, ABEX)

L62 1 SEA FILE=WPIX ABB=ON TRANSDEOXYRIBOSYLASE#/BI, ABEX OR DEOXYRIBOSE TRANSFERASE#/BI, ABEX

L63 4728 SEA FILE=WPIX ABB=ON (B04-L04 OR C04-L04 OR B04-B02C4 OR C04-B02C4)/MC

L64 4180 SEA FILE=WPIX ABB=ON HYDROLASE#/BI, ABEX OR NUCLEOSIDASE#/BI, ABEX OR DEAMINASE#/BI, ABEX

L65 4464 SEA FILE=WPIX ABB=ON DEOXYNUCLEOSIDE#/BI, ABEX OR DESOXYNUCLEOSIDE#/BI, ABEX OR (DEOXYPYRIMIDINE/BI, ABEX OR DESOXYPYRIMIDINE/BI, ABEX OR DEOXY/BI, ABEX OR DESOXY/BI, ABEX) (1W) NUCLEOSIDE#/BI, ABEX OR THYMIDINE/BI, ABEX

L66 1884 SEA FILE=WPIX ABB=ON GUANOSINE/BI, ABEX

L67 284 SEA FILE=WPIX ABB=ON HALOGENOPURINE#/BI, ABEX OR CHLOROPURINE#/BI, ABEX OR BROMOPURINE#/BI, ABEX OR IODOPURINE#/BI, ABEX OR FLUOROPURINE#/BI, ABEX

L68 260 SEA FILE=WPIX ABB=ON DIAMINOPURINE/BI, ABEX OR (DIAMINO/BI, ABEX OR DI AMINO/BI, ABEX) (W) PURINE/BI, ABEX

L69 86 SEA FILE=WPIX ABB=ON (HALOGEN#/BI, ABEX OR CHLORO/BI, ABEX OR BROMO/BI, ABEX OR IODO/BI, ABEX OR FLUORO/BI, ABEX) (W) PURINE#/BI, ABEX

L76 2 SEA FILE=WPIX ABB=ON (L58 OR L52) AND L64 AND (L65 OR L66 OR L67 OR L68 OR L69) AND (L59 OR L60 OR L61 OR L62 OR L63)

=> s 170,171,172,176 not 154

L135 7 (L70 OR L71 OR L72 OR L76) NOT L54

=> fil biosis; d que 186; d que 192

FILE 'BIOSIS' ENTERED AT 13:06:51 ON 20 MAR 2007

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FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 14 March 2007 (20070314/ED)

L6 1 SEA FILE=REGISTRY ABB=ON 961-07-9

L81 1108 SEA FILE=BIOSIS ABB=ON L6

L82 5101 SEA FILE=BIOSIS ABB=ON DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W) GUANOSINE OR DESOXYGUANOSINE OR GUANINE (W) (DEOXYRIBOSIDE OR DEOXY RIBOSIDE) OR (NSC22837 OR NSC 22837)

L84 28 SEA FILE=BIOSIS ABB=ON NUCLEOSIDE# (2A) DEOXYRIBOSYL (2A) TRANSFERASE# OR NUCLEOSIDE (2W) (DEOXYRIBOSYLTRANSFERASE# OR DEOXYRIBOSYLASE#)

L85 23 SEA FILE=BIOSIS ABB=ON TRANS (1W) (DEOXYRIBOSYLASE# OR DEOXYRIBOLASE# OR GLYCOSIDASE#) OR TRANSDEOXYRIBOSYLASE# OR DEOXYRIBOSE TRANSFERASE#

L86 2 SEA FILE=BIOSIS ABB=ON (L81 OR L82) AND (L84 OR L85)

L6 1 SEA FILE=REGISTRY ABB=ON 961-07-9  
 L81 1108 SEA FILE=BIOSIS ABB=ON L6  
 L82 5101 SEA FILE=BIOSIS ABB=ON DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W)  
 GUANOSINE OR DESOXYGUANOSINE OR GUANINE (W) (DEOXYRIBOSIDE OR  
 DEOXY RIBOSIDE) OR (NSC22837 OR NSC 22837)  
 L87 80769 SEA FILE=BIOSIS ABB=ON TRANSFERASE#  
 L88 17485 SEA FILE=BIOSIS ABB=ON GUANOSINE OR HALOGENOPURINE# OR  
 CHLOROPURINE# OR BROMOPURINE# OR IODOPURINE# OR FLUOROPURINE#  
 OR (HALOGEN# OR CHLORO OR BROMO OR IODO OR FLUORO) (W) PURINE#  
 L89 526 SEA FILE=BIOSIS ABB=ON DIAMINOPURINE OR (DIAMINO OR DI  
 AMINO) (W) PURINE  
 L90 56728 SEA FILE=BIOSIS ABB=ON DEOXYNUCLEOSIDE# OR DESOXYNUCLEOSIDE#  
 OR (DEOXYPYRIMIDINE OR DESOXYPYRIMIDINE OR DEOXY OR DESOXY) (1W)  
 NUCLEOSIDE# OR THYMIDINE  
 L91 37634 SEA FILE=BIOSIS ABB=ON HYDROLASE# OR NUCLEOSIDASE# OR  
 DEAMINASE#  
 L92 9 SEA FILE=BIOSIS ABB=ON (L81 OR L82) AND L87 AND (L88 OR L89)  
 AND (L90 OR L91)

=> s 186,192 not 183

L136 10 (L86 OR L92) NOT L83

=> => dup rem 1134,1135,1136,1133

FILE 'CAPLUS' ENTERED AT 13:07:20 ON 20 MAR 2007

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FILE 'PASCAL' ENTERED AT 13:07:20 ON 20 MAR 2007

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FILE 'SCISEARCH' ENTERED AT 13:07:20 ON 20 MAR 2007

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PROCESSING COMPLETED FOR L134

PROCESSING COMPLETED FOR L135

PROCESSING COMPLETED FOR L136

PROCESSING COMPLETED FOR L133

L137 34 DUP REM L134 L135 L136 L133 (6 DUPLICATES REMOVED)  
 ANSWERS '1-3' FROM FILE CAPLUS  
 ANSWERS '4-10' FROM FILE WPIX  
 ANSWERS '11-20' FROM FILE BIOSIS  
 ANSWERS '21-25' FROM FILE MEDLINE  
 ANSWERS '26-31' FROM FILE PASCAL  
 ANSWER '32' FROM FILE BIOTECHDS  
 ANSWER '33' FROM FILE EMBASE  
 ANSWER '34' FROM FILE SCISEARCH

=> d ibib ed abs hitind 1-3; d iall abeq tech hitstr 4-10; d iall 11-34; fil hom

L137 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2000:505914 CAPLUS Full-text  
 DOCUMENT NUMBER: 133:321029  
 TITLE: A novel enzymatic method for the production of  
 purine-2'-deoxyribonucleosides  
 AUTHOR(S): Yokozeki, K.; Tsuji, T.  
 CORPORATE SOURCE: AminoScience Laboratories, Ajinomoto Co. Inc.,  
 Kawasaki, 210-8681, Japan  
 SOURCE: Journal of Molecular Catalysis B: Enzymatic (2000),  
 10(1-3), 207-213  
 CODEN: JMCEF8; ISSN: 1381-1177  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 133:321029

ED Entered STN: 26 Jul 2000

AB The microbial production of purine-2'-deoxyribonucleosides from pyrimidine-2'-  
 deoxyribonucleosides and purine bases was examined by the application of  
 nucleoside phosphorylase using Enterobacter aerogenes AJ-11125 as the enzyme  
 source. In this system, 2'-deoxyadenosine (dAR) was efficiently produced from  
 2'-deoxyuridine (dUR) and adenine. In contrast, 2'-deoxyguanosine (dGR) was  
 scarcely produced from dUR and guanine, because of the low solubility of  
 guanine. Under the conditions using guanosine (GR) with higher solubility  
 than guanine as a guanine source, higher productivity of dGR was obtained, but  
 the maximal molar yield obtained was less than 20%. To improve its  
 productivity, we newly constructed a following enzymic method via 2,6-  
 diaminopurine-2'-deoxyriboside (dDAPR) as follows: production of dDAPR from  
 dUR and 2,6-diaminopurine (DAP) by E. aerogenes AJ-11125, followed by the  
 conversion of dDAPR to dGR by adenosine deaminase. Through the successive  
 reactions, dGR was efficiently produced with high yield.

CC 16-2 (Fermentation and Bioindustrial Chemistry)

ST Escherichia enzymic purine **deoxynucleoside** prodn

IT Nucleosides, biological studies

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BPR  
 (Biological process); BSU (Biological study, unclassified); BIOL  
 (Biological study); PREP (Preparation); PROC (Process)

(**deoxynucleosides**; novel enzymic method for the production of  
 purine-2'-deoxyribonucleosides)

IT 958-09-8P, 2'-Deoxyadenosine 961-07-9P, 2'-Deoxyguanosine

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL  
 (Biological study); PREP (Preparation)

(novel enzymic method for the production of purine-2'-deoxyribonucleosides)

IT 9026-93-1, Adenosine deaminase 9030-22-2, Uridine phosphorylase  
 9055-35-0 9059-37-4

RL: BPR (Biological process); BSU (Biological study, unclassified); CAT  
 (Catalyst use); BIOL (Biological study); PROC (Process); USES (Uses)

(novel enzymic method for the production of purine-2'-deoxyribonucleosides)

IT 73-24-5, Adenine, biological studies 73-40-5, Guanine 118-00-3

## SEARCH HISTORY

=&gt; d his nofile

(FILE 'HOME' ENTERED AT 10:46:17 ON 20 MAR 2007)

FILE 'ZCAPLUS' ENTERED AT 10:46:39 ON 20 MAR 2007  
 E BACTERIA+ALL/CT  
 E EUBACTERIA+NT1/CT

FILE 'CAPLUS' ENTERED AT 11:16:14 ON 20 MAR 2007  
 E US2004-500226/APPS

L1 4307 SEA ABB=ON NOGUCHI T?/AU  
 L2 520 SEA ABB=ON HAMAMOTO T?/AU  
 L3 1696 SEA ABB=ON OKUYAMA K?/AU  
 L4 770 SEA ABB=ON SHIBUYA S?/AU  
 L5 2 SEA ABB=ON L1 AND L2 AND L3 AND L4  
 D SCAN

FILE 'STNGUIDE' ENTERED AT 11:18:16 ON 20 MAR 2007

FILE 'REGISTRY' ENTERED AT 11:19:55 ON 20 MAR 2007  
 L6 1 SEA ABB=ON 961-07-9

FILE 'REGISTRY' ENTERED AT 11:20:25 ON 20 MAR 2007  
 D IDE

FILE 'STNGUIDE' ENTERED AT 11:20:52 ON 20 MAR 2007

FILE 'REGISTRY' ENTERED AT 11:33:14 ON 20 MAR 2007

L7 1 SEA ABB=ON GUANOSINE/CN  
 L8 1 SEA ABB=ON 85-32-5  
 L9 1 SEA ABB=ON 2,6-DIAMINOPURINE/CN  
 L10 1 SEA ABB=ON 2-AMINO-6-CHLOROPURINE/CN  
 L\*\*\* DEL 0 S 2-AMINO-PURINE/CN  
 L11 1 SEA ABB=ON 452-06-2  
 L12 3 SEA ABB=ON THYMIDINE/CN  
 E NUCLEOSIDE DEOXYRIBOSYL TRANSFERASE/CN  
 E NUCLEOSIDE DEOXYRIBOSYLTRANSFERASE/CN  
 L13 1 SEA ABB=ON NUCLEOSIDE DEOXYRIBOSYLTRANSFERASE/CN  
 E HYDROLASE/CN  
 L14 1 SEA ABB=ON HYDROLASE/CN  
 E NUCLEOSIDASE/CN  
 L15 1 SEA ABB=ON NUCLEOSIDASE/CN  
 E PURINE NUCLEOSIDASE/CN  
 L16 1 SEA ABB=ON PURINE NUCLEOSIDASE/CN  
 E DEAMINASE/CN  
 L17 1 SEA ABB=ON DEAMINASE/CN  
 E INOSINATE NUCLEOSIDASE/CN  
 L18 1 SEA ABB=ON INOSINATE NUCLEOSIDASE/CN  
 E ADENOSINE DEAMINASE/CN  
 L19 3 SEA ABB=ON ADENOSINE DEAMINASE/CN

FILE 'CAPLUS' ENTERED AT 11:39:20 ON 20 MAR 2007

L20 16 SEA ABB=ON PYRIMIDINE NUCLEOSIDES/CT(L) 2/OBI(L) DEOXY/OBI  
 L21 1367 SEA ABB=ON DEOXYNUCLEOSIDE#/OBI  
 L22 8488 SEA ABB=ON L12  
 L23 177 SEA ABB=ON L6/P  
 L24 11127 SEA ABB=ON (L7 OR L8 OR L9 OR L10)  
 L25 38 SEA ABB=ON L11/D

L26 107 SEA ABB=ON L13  
 L27 8777 SEA ABB=ON (L14 OR L15 OR L16 OR L17 OR L18 OR L19)  
 L28 4 SEA ABB=ON L23 AND (L1 OR L2 OR L3 OR L4)  
 L29 2 SEA ABB=ON L23 AND (L24 OR L25) AND (L20 OR L21 OR L22) AND  
 L27 AND L26  
 L30 104 SEA ABB=ON L23 AND (L24 OR L25 OR L20 OR L21 OR L22 OR L27 OR  
 L26)  
 L31 55 SEA ABB=ON L23 AND (L24 OR L25)  
 L32 70 SEA ABB=ON L23 AND (L20 OR L21 OR L22)  
 L33 10 SEA ABB=ON L23 AND L27  
 L34 7 SEA ABB=ON L23 AND L26  
 L35 5 SEA ABB=ON L23 AND (L24 OR L25) AND (L20 OR L21 OR L22) AND  
 (L27 OR L26)  
 L36 26 SEA ABB=ON L23 AND (L24 OR L25) AND (L20 OR L21 OR L22)  
 L37 4 SEA ABB=ON NUCLEOSIDE#/OBI (L) DEOXYRIBOSYL/OBI (L) TRANSFERASE#/O  
 BI  
 L38 1704 SEA ABB=ON HALOGENOPURINE#/OBI OR CHLOROPURINE#/OBI OR  
 BROMOPURINE#/OBI OR IODOPURINE#/OBI OR FLUOROPURINE#/OBI  
 L39 1 SEA ABB=ON L22 AND L23 AND L38 AND L37 AND L17  
 L40 1 SEA ABB=ON L22 AND L38 AND L37 AND L17

FILE 'REGISTRY' ENTERED AT 11:47:08 ON 20 MAR 2007  
 D IDE L13

FILE 'STNGUIDE' ENTERED AT 11:51:55 ON 20 MAR 2007

FILE 'CAPLUS' ENTERED AT 11:54:32 ON 20 MAR 2007

L41 67 SEA ABB=ON NUCLEOSIDE/OBI (2W) (DEOXYRIBOSYLTRANSFERASE#/OBI OR  
 DEOXYRIBOSYLASE#/OBI)  
 L42 40 SEA ABB=ON TRANS/OBI (1W) (DEOXYRIBOSYLASE#/OBI OR DEOXYRIBOLASE  
 #/OBI OR GLYCOSIDASE#/OBI)  
 L43 11 SEA ABB=ON TRANSDEOXYRIBOSYLASE#/OBI OR DEOXYRIBOSE TRANSFERAS  
 E#/OBI  
 D QUE L40  
 L44 1 SEA ABB=ON L22 AND L17 AND L38 AND (L37 OR L13 OR L41 OR L42  
 OR L43)

FILE 'WPIX' ENTERED AT 11:56:17 ON 20 MAR 2007

L45 3886 SEA ABB=ON NOGUCHI T?/AU  
 L46 493 SEA ABB=ON HAMAMOTO T?/AU  
 L47 1209 SEA ABB=ON OKUYAMA K?/AU  
 L48 949 SEA ABB=ON SHIBUYA S?/AU  
 L49 381 SEA ABB=ON DEOXYGUANOSINE/BI, ABEX OR DEOXY GUANOSINE/BI, ABEX  
 L50 1 SEA ABB=ON GUANINE/BI, ABEX (W) (DEOXYRIBOSIDE/BI, ABEX OR DEOXY  
 RIBOSIDE/BI, ABEX) OR (NSC22837/BI, ABEX OR NSC 22837/BI, ABEX)  
 L51 3 SEA ABB=ON (L45 OR L46 OR L47 OR L48) AND (L49 OR L50)  
 D TRIAL 1-3  
 L52 20 SEA ABB=ON DESOXYGUANOSINE/BI, ABEX OR DESOXY GUANOSINE/BI, ABEX  
 L53 1 SEA ABB=ON L51 AND L52  
 D TRIAL  
 L54 3 SEA ABB=ON (L45 OR L46 OR L47 OR L48) AND (L49 OR L50 OR L52)

D TRIAL 1-3

FILE 'STNGUIDE' ENTERED AT 12:00:27 ON 20 MAR 2007

FILE 'WPIX' ENTERED AT 12:09:19 ON 20 MAR 2007

E B04-B03A+ALL/MC  
 E B04-B03C+ALL/MC



E B04-E01+ALL/MC  
 E B04-L04+ALL/MC  
 E B04-L05+ALL/MC  
 E B06-D09+ALL/MC  
 E B07-A02A+ALL/MC  
 E B11-A02+ALL/MC  
 E D05-A02B+ALL/MC  
 E D05-A02C+ALL/MC  
 E D05-C06+ALL/MC  
 E D05-H12+ALL/MC  
 E E06-D09+ALL/MC  
 E A12-W11L+ALL/MC  
 E B11-C01+ALL/MC  
 E B04-B03+ALL/MC  
 E B12-G07+ALL/MC  
 E D05-A02+ALL/MC

FILE 'STNGUIDE' ENTERED AT 12:09:54 ON 20 MAR 2007

FILE 'WPIX' ENTERED AT 12:22:41 ON 20 MAR 2007

E GUANINE DEOXYRIBOSIDE/CN  
 E DEOXYGUANOSINE/CN  
 L55 1 SEA ABB=ON "DEOXYGUANOSINE,2'-' /CN  
 L56 25 SEA ABB=ON L55/DCR  
 SEL SDRN,SDCN,DCSE L55  
 L57 25 SEA ABB=ON (RA05YW/DRN,DCN,DCRE OR 10871-1-0-0/DRN,DCN,DCRE)  
 L58 385 SEA ABB=ON (L56 OR L57 OR L49 OR L50)  
 L59 6 SEA ABB=ON NUCLEOSIDE#/BI,ABEX (2A) DEOXYRIBOSYL#/BI,ABEX (2A) TRAN  
 SFERASE#/BI,ABEX  
 L60 3 SEA ABB=ON NUCLEOSIDE#/BI,ABEX (2W) (DEOXYRIBOSYLTRANSFERASE#/BI,  
 ABEX OR DEOXYRIBOSYLASE#/BI,ABEX)  
 L61 5 SEA ABB=ON TRANS#/BI,ABEX (1W) (DEOXYRIBOSYLASE#/BI,ABEX OR  
 DEOXYRIBOLASE#/BI,ABEX OR GLYCOSIDASE#/BI,ABEX)  
 L62 1 SEA ABB=ON TRANSDEOXYRIBOSYLASE#/BI,ABEX OR DEOXYRIBOSE  
 TRANSFERASE#/BI,ABEX  
 L63 4728 SEA ABB=ON (B04-L04 OR C04-L04 OR B04-B02C4 OR C04-B02C4)/MC  
 L64 4180 SEA ABB=ON HYDROLASE#/BI,ABEX OR NUCLEOSIDASE#/BI,ABEX OR  
 DEAMINASE#/BI,ABEX  
 L65 4464 SEA ABB=ON DEOXYNUCLEOSIDE#/BI,ABEX OR DESOXYNUCLEOSIDE#/BI,AB  
 EX OR (DEOXYPYRIMIDINE#/BI,ABEX OR DESOXYPYRIMIDINE#/BI,ABEX OR  
 DEOXY/BI,ABEX OR DESOXY/BI,ABEX) (1W) NUCLEOSIDE#/BI,ABEX OR  
 THYMIDINE#/BI,ABEX  
 L66 1884 SEA ABB=ON GUANOSINE#/BI,ABEX  
 D QUE L38  
 L67 284 SEA ABB=ON HALOGENOPURINE#/BI,ABEX OR CHLOROPURINE#/BI,ABEX  
 OR BROMOPURINE#/BI,ABEX OR IODOPURINE#/BI,ABEX OR FLUOROPURINE#  
 /BI,ABEX  
 L68 260 SEA ABB=ON DIAMINOPURINE#/BI,ABEX OR (DIAMINO/BI,ABEX OR DI  
 AMINO/BI,ABEX) (W) PURINE#/BI,ABEX  
 L69 86 SEA ABB=ON (HALOGEN#/BI,ABEX OR CHLORO/BI,ABEX OR BROMO/BI,ABE  
 X OR IODO/BI,ABEX OR FLUORO/BI,ABEX) (W) PURINE#/BI,ABEX  
 L70 2 SEA ABB=ON (L58 OR L52) AND (L59 OR L60 OR L61 OR L62)  
 L71 5 SEA ABB=ON (L58 OR L52) AND L63 AND (L66 OR L67 OR L68 OR  
 L69)  
 D QUE L65  
 L72 6 SEA ABB=ON (L58 OR L52) AND L65 AND L63  
 L73 16 SEA ABB=ON (L58 OR L52) AND L64  
 L74 13 SEA ABB=ON (L58 OR L52) AND L64 AND (L63 OR L65 OR L66 OR L67  
 OR L68 OR L69)  
 L75 13 SEA ABB=ON (L58 OR L52) AND L64 AND (L65 OR L66 OR L67 OR L68

OR L69)  
 L76 2 SEA ABB=ON (L58 OR L52) AND L64 AND (L65 OR L66 OR L67 OR L68  
 OR L69) AND (L59 OR L60 OR L61 OR L62 OR L63)

FILE 'BIOSIS' ENTERED AT 12:34:05 ON 20 MAR 2007

L77 2042 SEA ABB=ON NOGUCHI T?/AU  
 L78 249 SEA ABB=ON HAMAMOTO T?/AU  
 L79 343 SEA ABB=ON OKUYAMA K?/AU  
 L80 233 SEA ABB=ON SHIBUYA S?/AU  
 L81 1108 SEA ABB=ON L6  
 L82 5101 SEA ABB=ON DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W) GUANOSINE  
 OR DESOXYGUANOSINE OR GUANINE(W) (DEOXYRIBOSIDE OR DEOXY  
 RIBOSIDE) OR (NSC22837 OR NSC 22837)  
 L83 4 SEA ABB=ON (L77 OR L78 OR L79 OR L80) AND (L81 OR L82)  
 D SCAN  
 L84 28 SEA ABB=ON NUCLEOSIDE#(2A)DEOXYRIBOSYL(2A)TRANSFERASE# OR  
 NUCLEOSIDE(2W)(DEOXYRIBOSYLTRANSFERASE# OR DEOXYRIBOSYLASE#)  
 L85 23 SEA ABB=ON TRANS(1W)(DEOXYRIBOSYLASE# OR DEOXYRIBOLASE# OR  
 GLYCOSIDASE#) OR TRANSDEOXYRIBOSYLASE# OR DEOXYRIBOSE TRANSFERA  
 SE#  
 L86 2 SEA ABB=ON (L81 OR L82) AND (L84 OR L85)  
 L87 80769 SEA ABB=ON TRANSFERASE#  
 L88 17485 SEA ABB=ON GUANOSINE OR HALOGENOPURINE# OR CHLOROPURINE# OR  
 BROMOPURINE# OR IODOPURINE# OR FLUOROPURINE# OR (HALOGEN# OR  
 CHLORO OR BROMO OR IODO OR FLUORO) (W)PURINE#  
 L89 526 SEA ABB=ON DIAMINOPURINE OR (DIAMINO OR DI AMINO) (W)PURINE  
 L90 56728 SEA ABB=ON DEOXYNUCLEOSIDE# OR DESOXYNUCLEOSIDE# OR (DEOXYPYRI  
 MIDINE OR DESOXYPYRIMIDINE OR DEOXY OR DESOXY) (1W) NUCLEOSIDE#  
 OR THYMIDINE  
 D QUE  
 L91 37634 SEA ABB=ON HYDROLASE# OR NUCLEOSIDASE# OR DEAMINASE#  
 L92 9 SEA ABB=ON (L81 OR L82) AND L87 AND (L88 OR L89) AND L90 OR  
 L91)

FILE 'STNGUIDE' ENTERED AT 12:41:05 ON 20 MAR 2007

FILE 'MEDLINE, JICST-EPLUS, PASCAL, BIOTECHNO, CONFSCI, BIOTECHDS,  
 DISSABS, BIOENG, CEABA-VTB, EMBASE, SCISEARCH' ENTERED AT 12:50:38 ON 20  
 MAR 2007

L93 12060 SEA ABB=ON NOGUCHI T?/AU  
 L94 1973 SEA ABB=ON HAMAMOTO T?/AU  
 L95 4277 SEA ABB=ON OKUYAMA K?/AU  
 L96 2031 SEA ABB=ON SHIBUYA S?/AU  
 L97 4682 SEA ABB=ON L6  
 L98 19615 SEA ABB=ON DEOXYGUANOSINE OR (DESOXY OR DEOXY) (W) GUANOSINE  
 OR DESOXYGUANOSINE OR GUANINE(W) (DEOXYRIBOSIDE OR DEOXY  
 RIBOSIDE) OR (NSC22837 OR NSC 22837)  
 L99 11 SEA ABB=ON NUCLEOSIDE#(2A) DEOXYRIBOSYL(2A) TRANSFERASE#  
 L100 117 SEA ABB=ON NUCLEOSIDE(2W)(DEOXYRIBOSYLTRANSFERASE# OR  
 DEOXYRIBOSYLASE#)  
 L101 70 SEA ABB=ON TRANS(1W)(DEOXYRIBOSYLASE# OR DEOXYRIBOLASE# OR  
 GLYCOSIDASE#)  
 L102 7 SEA ABB=ON TRANSDEOXYRIBOSYLASE# OR DEOXYRIBOSE TRANSFERASE#  
 L103 310920 SEA ABB=ON TRANSFERASE#  
 L104 395819 SEA ABB=ON HYDROLASE# OR NUCLEOSIDASE# OR DEAMINASE#  
 L105 200366 SEA ABB=ON DEOXYNUCLEOSIDE# OR DESOXYNUCLEOSIDE# OR (DEOXYPYRI  
 MIDINE OR DESOXYPYRIMIDINE OR DEOXY OR DESOXY) (1W) NUCLEOSIDE#  
 OR THYMIDINE  
 L106 107827 SEA ABB=ON GUANOSINE  
 L107 1249 SEA ABB=ON HALOGENOPURINE# OR CHLOROPURINE# OR BROMOPURINE#

OR IODOPURINE# OR FLUOROPURINE#

L108 1785 SEA ABB=ON DIAMINOPURINE OR (DIAMINO OR DI AMINO) (W) PURINE  
 L109 45 SEA ABB=ON (HALOGEN# OR CHLORO OR BROMO OR IODO OR FLUORO) (W) PURINE#

L110 24 SEA ABB=ON (L93 OR L94 OR L95 OR L96) AND (L97 OR L98)  
 L111 6 SEA ABB=ON (L93 OR L94 OR L95 OR L96) AND (L97 OR L98) AND (L99 OR L100 OR L101 OR L102 OR L103 OR L104 OR L105 OR L106 OR L107 OR L108 OR L109)

L112 13 SEA ABB=ON (L97 OR L98) AND (L99 OR L100 OR L101 OR L102)  
 L113 1 SEA ABB=ON (L97 OR L98) AND L103 AND L104 AND L105 AND (L106 OR L107 OR L108 OR L109)

L114 10 SEA ABB=ON (L97 OR L98) AND L103 AND L104 AND L105  
 L115 630 SEA ABB=ON (L97 OR L98) AND L103  
 L116 601 SEA ABB=ON (L97 OR L98) AND L104  
 L117 2440 SEA ABB=ON (L97 OR L98) AND L105  
 L118 2568 SEA ABB=ON (L97 OR L98) AND (L106 OR L107 OR L108 OR L109)  
 L119 35797 SEA ABB=ON (L103 AND (L104 OR L105 OR L106 OR L107 OR L108 OR L109)) OR (L104 AND (L105 OR L106 OR L107 OR L108 OR L109)) OR (L105 AND (L106 OR L107 OR L108 OR L109))

L120 793 SEA ABB=ON (L98 OR L97) AND L119  
 L121 469 SEA ABB=ON (L103 AND L104 AND (L105 OR L106 OR L107 OR L108 OR L109)) OR (L103 AND L105 AND (L106 OR L107 OR L108 OR L109))

L122 151 SEA ABB=ON (L104 AND L105 AND (L106 OR L107 OR L108 OR L109))

L123 31 SEA ABB=ON (L97 OR L98) AND L121  
 L124 26 SEA ABB=ON (L97 OR L98) AND L122  
 L125 56 SEA ABB=ON (L123 OR L124)  
 L126 36 DUP REM L125 (20 DUPLICATES REMOVED)  
 ANSWERS '1-15' FROM FILE MEDLINE  
 ANSWERS '16-25' FROM FILE PASCAL  
 ANSWERS '26-30' FROM FILE BIOTECHNO  
 ANSWER '31' FROM FILE BIOTECHDS  
 ANSWER '32' FROM FILE CEABA-VTB  
 ANSWERS '33-36' FROM FILE EMBASE  
 D SCAN L114

L127 548 SEA ABB=ON L98(5A) (PREP? OR SYNTHES? OR MANUF? OR BIOSYNTHES?)

L128 1308 SEA ABB=ON L97 AND (PREP? OR SYNTHES? OR MANUF? OR BIOSYNTHES?)

L129 1744 SEA ABB=ON (L127 OR L128)  
 L130 14 SEA ABB=ON L129 AND L103 AND (L104 OR L105 OR L106 OR L107 OR L108 OR L109)

FILE 'STNGUIDE' ENTERED AT 13:02:50 ON 20 MAR 2007

FILE 'MEDLINE, JICST-EPLUS, PASCAL, BIOTECHNO, CONFSCI, BIOTECHDS, DISSABS, BIOENG, CEABA-VTB, EMBASE, SCISEARCH' ENTERED AT 13:03:54 ON 20 MAR 2007

D QUE L111

FILE 'CAPLUS' ENTERED AT 13:03:57 ON 20 MAR 2007

D QUE L28

FILE 'WPIX' ENTERED AT 13:03:58 ON 20 MAR 2007

D QUE L54

FILE 'BIOSIS' ENTERED AT 13:04:01 ON 20 MAR 2007

D QUE L83

FILE 'CAPLUS, WPIX, BIOSIS, MEDLINE, JICST-EPLUS, PASCAL, BIOTECHDS,  
SCISEARCH' ENTERED AT 13:04:02 ON 20 MAR 2007

L131 9 DUP REM L28 L54 L83 L111 (8 DUPLICATES REMOVED)  
ANSWERS '1-4' FROM FILE CAPLUS  
ANSWER '5' FROM FILE WPIX  
ANSWERS '6-8' FROM FILE BIOSIS  
ANSWER '9' FROM FILE SCISEARCH  
D IBIB ED AB 1-9

FILE 'STNGUIDE' ENTERED AT 13:04:29 ON 20 MAR 2007

FILE 'MEDLINE, JICST-EPLUS, PASCAL, BIOTECHNO, CONFSCI, BIOTECHDS,  
DISSABS, BIOENG, CEABA-VTB, EMBASE, SCISEARCH' ENTERED AT 13:06:31 ON 20  
MAR 2007

D QUE L112  
D QUE L130  
L132 25 SEA ABB=ON (L112 OR L130)  
L133 20 SEA ABB=ON L132 NOT L111

FILE 'CAPLUS' ENTERED AT 13:06:44 ON 20 MAR 2007

D QUE L35  
D QUE L44  
L134 3 SEA ABB=ON (L35 OR L44) NOT L28

FILE 'WPIX' ENTERED AT 13:06:46 ON 20 MAR 2007

D QUE L70  
D QUE L71  
D QUE L72  
D QUE L76  
L135 7 SEA ABB=ON (L70 OR L71 OR L72 OR L76) NOT L54

FILE 'BIOSIS' ENTERED AT 13:06:51 ON 20 MAR 2007

D QUE L86  
D QUE L92  
L136 10 SEA ABB=ON (L86 OR L92) NOT L83

FILE 'STNGUIDE' ENTERED AT 13:07:01 ON 20 MAR 2007

FILE 'CAPLUS, WPIX, BIOSIS, MEDLINE, PASCAL, BIOTECHNO, BIOTECHDS,  
EMBASE, SCISEARCH' ENTERED AT 13:07:20 ON 20 MAR 2007

L137 34 DUP REM L134 L135 L136 L133 (6 DUPLICATES REMOVED)  
ANSWERS '1-3' FROM FILE CAPLUS  
ANSWERS '4-10' FROM FILE WPIX  
ANSWERS '11-20' FROM FILE BIOSIS  
ANSWERS '21-25' FROM FILE MEDLINE  
ANSWERS '26-31' FROM FILE PASCAL  
ANSWER '32' FROM FILE BIOTECHDS  
ANSWER '33' FROM FILE EMBASE  
ANSWER '34' FROM FILE SCISEARCH  
D IALL ABEQ TECH HITSTR 4-10  
D IALL 11-34

FILE 'HOME' ENTERED AT 13:08:24 ON 20 MAR 2007

FILE 'CAPLUS, WPIX, BIOSIS, MEDLINE, PASCAL, BIOTECHDS, EMBASE,  
SCISEARCH' ENTERED AT 13:10:22 ON 20 MAR 2007

D IBIB ED ABS HITIND 1-3  
D IBIB ED ABS HITIND 1-3

FILE 'STNGUIDE' ENTERED AT 13:13:02 ON 20 MAR 2007